

Defense Science & Technology Seminar on Emerging Technologies

Green Energetics

**Sponsored by the
Deputy Under Secretary of Defense for
Science & Technology**

**Army TACOM-ARDEC, Picatinny Arsenal
Navy NSWC Indian Head**

Friday, June 18, 1999

**Crystal City Marriott (Crystal Forum)
1999 Jefferson Davis Highway
Arlington, VA 22202**

Phone: (703) 413-5500 Reservations: (800) 228-9290

Agenda

0830	Welcome Introductions	Dr. Delores Etter, DUSD(S&T) Mr. Bradley Smith, SERDP
0840	"Energetics and Environmental Issues: An Overview"	Dr. Joe Lannon TACOM-ARDEC
0910	"The Green Bullet Program"	Mr. Wade Bunting TACOM-ARDEC
0930	"Recovery and Recycling of Energetic Materials"	Dr. Bob Wardle Thiokol Corp.
0950	"Green Processing of Energetic Materials"	Mr. John Brough NSWC Indian Head
1010	"Novel Synthesis Methods for Energetic Materials"	Dr. Harold Bright ONR
1030	Closing Comments/Adjournment	Dr. Delores Etter, DUSD(S&T)

RSVP: Karen Coleman, (v) 703-243-1655, (f) 703-312-8620, (e) mrinc@erols.com

**OFFICE OF THE DIRECTOR OF
DEFENSE RESEARCH AND ENGINEERING
3040 DEFENSE PENTAGON
WASHINGTON, DC 20301-3040**

Dear Colleague:

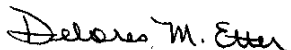
We are pleased to invite your participation in the Defense Science and Technology Seminar on "Green Energetic," which is being co-sponsored by the Deputy Under Secretary of Defense for Science and Technology, the Technical Director of the U.S. Army Armament Research, Development and Engineering Center, and the Director of the Naval Surface Warfare Center, Indian Head Division. The seminar will be held on Friday, June 18, 1999, at the Crystal City Marriott (Crystal Forum), 1999 Jefferson Davis Highway, Arlington, Virginia. A copy of the agenda and other information relevant to registration and attendance at the seminar are enclosed.

The seminar is the eighth in a continuing series initiated in the Fall of 1998 to promote dialogue among military leaders, members of the Defense science and technology community, and leading researchers from industry and academia on topics of growing interest and importance to the Department of Defense. The seminars are held on a regular basis each month featuring a number of short presentations by distinguished researchers in the field that are intended to provide useful insights in a technology area offering significant military payoffs. A discussion period follows the presentations.

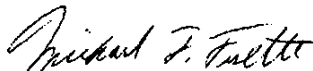
The seminar will focus on the underlying scientific and technological advances in energetic materials and processes that will make future weapons systems more environmentally friendly. These advances include new energetic materials, new processes for synthesis and processing and new materials for ammunition components. Some of these advances in materials and processes have led to rapid implementation of environmentally benign substitutes in weapons systems manufacture. Speakers will discuss the development of the new explosives and propellants, new synthesis routes and processing techniques and the combination of several of these advances into the "green" bullet.

We trust that you will find this seminar informative and productive. At the end of the seminar, please take advantage of the opportunity to suggest topics for future S&T seminars by filling out the comment sheet that will be provided. We hope to promote the development of novel approaches for addressing Defense needs and advanced military systems through better understanding of current operational and technological challenges. Your participation in the S&T seminars will help us to achieve our objective.

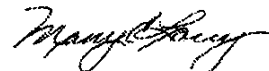
Sincerely,



Delores M. Etter
Deputy Under Secretary of Defense
(Science and Technology)



Michael Fiset
Technical Director
Armament Research,
Development and
Engineering Center



Mary E. Lacey
Director
Indian Head Division
Naval Surface Warfare
Center

Enclosures